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1987 LP-GAS MARKET FACTS

NATIONAL PROPANE GAS ASSOCIATION

PRODUCTION/TRANSPORTATION/STORAGE/IMPORT/EXPORT/SALES/EQUIPMENT/UTILIZATION

1987 LP-GAS INDUSTRY MARKET FACTS

DEVELOPED BY STATISTICAL AND MARKET RESEARCH COMMITTEE
NATIONAL PROPANE GAS ASSOCIATION
Robert B. Nicholson, Chairman

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ABOUT THIS REPORT

The 1987 LP-GAS INDUSTRY MARKET FACTS report was compiled from the EIA-63 Petroleum Supply Annual questionnaire by the Energy Information Administration (EIA), U.S. Department of Energy. The information in EIA-63A is identical to EIA-63 questionnaires non-utility natural gas liquids processing plants and petroleum refineries.

A request to survey refinery operators of natural gas processing plants, LP-gas dealers and importers was organized under the joint sponsorship of the American Petroleum Institute, the National LP-Gas Association and the National Propane Gas Association, and the Gas Processors Association. The Project reports a survey of LP-gas users beginning with 1968 data using the same procedure of reporting the survey data used by EIA in the LP-gas sales reports, sometimes through 1978.

In 1984 EIA reports of LP-gas sales for 1970-1980 were found to be incomplete. Data for 1974-80 was developed in 1984 utilizing EIA state LP-gas consumption data for the period 1979-82, wholesale deliveries of LP-gas to the consuming sales are reported in "Petroleum Supply Annual" published by EIA for the years 1981-82, and annually projected market research techniques.

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LP-GAS, THE INDUSTRY IN BRIEF

WHAT IS LP-GAS?

The "LP" in LP-gas stands for Liquefied Petroleum, and it simply means that the gas is derived from petroleum products and sold in compressed, or liquefied form. The makeup of the gas can vary, but the most common forms include propane, butane, and propane/butane mixes. Propane is by far the predominant type of fuel. Liquefying the gas provides a highly efficient and safe method of storing and transporting the product; the fluid occupies a mere 1/270th the space of the gas, which returns to its natural state when released to the atmosphere under normal pressure. Energy content of propane, as measured in British Thermal Units, is about 91,500 BTU per gallon, or about 2,500 BTU per cubic foot.

In the United States, about 70% of LP-gas is extracted from natural gas, while 30% is refined from crude oil. Like natural gas, LP-gas is odorless, and an artificial smell is added. It is also heavier than air, clean-burning, non-toxic, and combustion produces negligible pollutants.

USES OF LP-GAS

This fuel is one of the country's most versatile sources of energy. It is both portable and easy to regulate. Its most common use is as a straight source of heat. It cooks food, warms homes, dries clothes, heats water, and barbecues for homeowners located in suburban, small town, and rural areas. It can also power refrigerators and air conditioners. Portable LP-gas brings city comfort to families everywhere. It can do anything in the wilderness that it can do at home, and LP-gas has long been a major comfort for campers.

LP-gas is also a staple on farms, where it's used for crop drying, flame weeding, tobacco curing, defoliation, poultry and pig brooding, stock tank heating, and frost protection. It also powers trucks, pumps, standby generators, and other farm equipment.

Commercial establishments, such as hotels, motels and restaurants, use LP-gas much like the homeowner. Industry relies on it for brazing, soldering, cutting, heat-treating, annealing, vulcanizing, and many other uses.

As an engine fuel, its minimal emissions allow it to be used indoors, which explains its wide popularity in fork-lift trucks. This same feature makes it a desirable fuel in congested areas, as the many fleets of city buses, taxis and delivery trucks will attest. Gasoline engines convert easily to LP-gas, efficiency improves, and engine life is increased.

THE MARKET

LP-gas ranks fourth in supplying the nation's energy needs. The industry serves over 20 million customers, including homes, farms, individuals, businesses, and government groups. LP-gas is essentially a rural fuel, and roughly 1-1/2 million farms, or about half of them, depend on the fuel for a variety of uses. A rough calculation of the market shows more than 60 million people dependent on LP-gas for one use or another.

THE INDUSTRY'S ASSETS

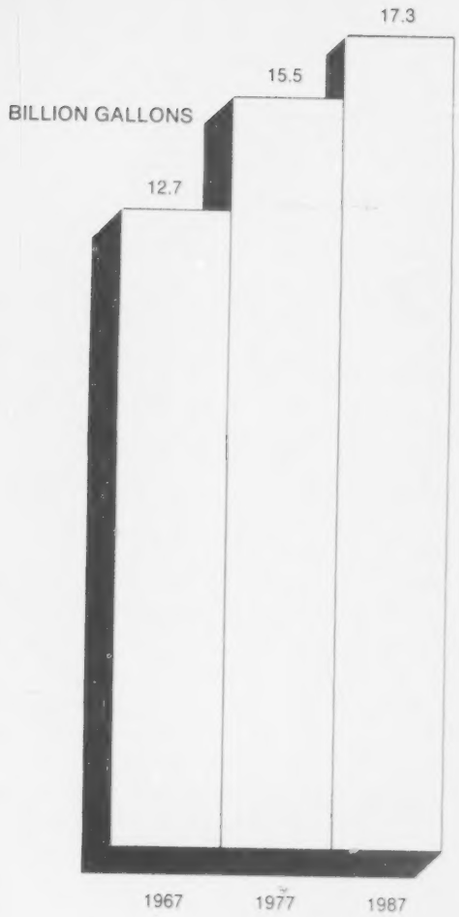
The distribution of LP-gas requires the effort of more than 86,000 people in the United States. Capital investment in excess of $7.5 billion includes 70,000 miles of cross-country pipelines, 26,000 transport and delivery trucks, 22,000 railroad tank cars, 250 primary storage facilities with capacity of seven billion gallons, a fleet of 60 barges and tankers, 9,000 bulk storage and distribution points, and 25,000 retail outlets.

Behind this vast network is the multi-billion dollar complex of petroleum refining and natural gas producing industries operated by LP-gas suppliers. More than 250 oil and gas companies produce LP-gas and distribute it in a number of ways. Some of them maintain their own LP-gas retail outlets, some sell on contract to established LP-gas marketers, and some of the gas finds its way to the open market through brokers.

WHAT IS NPGA?

The National Propane Gas Association is a trade association offering a full range of services, and represents all segments of the propane industry. Included are producers of LP-gas, wholesale and retail marketers, gas appliance and equipment manufacturers and distributors, tank and cylinder fabricators, transport firms and others. NPGA has over 4,000 members throughout the U.S. and 37 other countries. Forty-one regional and state LP-gas associations are affiliated with the national organization.

LP-GAS PRODUCTION



TOTAL ANNUAL PRODUCTION

YEAR	GALLONS*
1956	6,784,470,000
1957	6,947,640,000
1958	7,463,232,000
1959	8,926,764,000
1960	9,546,222,000
1961	9,824,136,000
1962	10,807,230,000
1963	9,951,018,000
1964	12,371,310,000
1965	12,898,746,000
1966	13,605,312,000
1967	12,656,868,000
1968	12,467,406,000
1969	15,683,220,000
1970	15,248,478,000
1971	15,498,336,000
1972	17,373,258,000
1973	17,191,356,000
1974	16,317,126,000
1975	15,199,674,000
1976	16,013,046,000
1977	15,487,500,000
1978	15,023,064,000
1979	16,431,660,000
1980	14,968,884,000
1981	14,395,248,000
1982	13,915,272,000
1983	13,687,758,000
1984	15,129,114,000
1985	15,702,540,000
1986	15,597,300,000 R
1987	17,252,592,000

Figures prior to 1966 include an undisclosed amount of ethane production.

Source: Energy Information Administration

PRODUCTION OF LP-GAS 1987
(thousands of gallons)

	Supply				Disposition			
Month	Natural Gas Liquids	Liquefied Refinery Gases	Imports	Stock Withdrawals or (Additions)	Refinery Inputs	Exports	LP-Gas Available to Market	Ending Stock
January	1,045,170	552,174	233,184	653,940	543,396	50,526	1,890,546	3,010,014
February	962,346	478,464	230,874	320,670	399,462	39,102	1,553,790	2,689,344
March	1,053,528	559,860	170,310	55,986	364,392	60,774	1,414,518	2,633,358
April	998,676	570,276	180,978	(107,310)	342,972	39,522	1,260,126	2,740,668
May	1,032,990	558,852	177,366	(286,272)	348,642	38,094	1,096,200	3,026,940
June	986,286	560,868	144,270	(207,270)	318,612	27,510	1,138,032	3,234,210
July	1,032,360	638,190	246,666	(196,854)	315,756	32,508	1,372,098	3,431,064
August	1,018,416	583,002	256,494	(308,322)	325,458	35,742	1,188,390	3,739,386
September	999,306	568,344	362,544	(74,592)	333,690	64,134	1,457,778	3,813,978
October	1,042,902	569,730	303,114	107,772	381,150	29,652	1,612,716	3,706,206
November	1,026,396	537,936	292,866	135,030	445,452	37,968	1,508,808	3,571,176
December	1,084,272	552,174	274,722	428,190	511,980	67,788	1,759,590	3,142,986
TOTAL	**12,282,648**	**6,729,870**	**2,873,388**	**520,968**	**4,630,962**	**523,320**	**17,252,592**	**3,142,986**

Source: Energy Information Administration

ANNUAL PRODUCTION, BY TYPE OF GAS, 1967-87
(thousands of gallons)

	PROPANE	BUTANE	BUTANE-PROPANE MIXTURE	ISO-BUTANE	TOTAL PRODUCTION	DAILY AVERAGE PRODUCTION
1967	9,478,644	2,400,678	720,132	56,574	12,656,028	34,674
1968	10,637,424	2,617,734	582,330	47,250	13,884,738	38,040
1969	12,019,014	3,252,102	339,822	72,282	15,683,220	42,968
1970	11,891,040	3,058,734	235,788	62,916	15,248,478	41,777
1971	12,168,156	2,964,024	289,506	76,650	15,498,336	42,461
1972	13,726,272	3,245,004	314,328	87,654	17,373,258	47,598
1973	13,364,232	3,433,164	286,860	107,100	17,191,356	47,100
1974	12,728,562	3,147,480	303,786	137,298	16,317,126	44,704
1975	12,006,834	2,825,172	274,218	93,450	15,199,674	41,643
1976	12,761,532	2,886,156	254,562	110,796	16,013,046	43,871
1977	12,592,566	2,341,122	451,584	102,228	15,487,500	42,432
1978	11,922,078	2,471,826	537,558	91,602	15,023,064	41,159
1979	13,053,978	2,885,274	435,624	56,784	16,431,660	45,018
1980	11,590,698	2,857,050	480,522	40,614	14,968,384	41,011
1981	11,848,116	2,056,656	441,462	49,014	14,395,248	39,439
1982	12,227,292	1,549,170	139,482	(672)	13,915,272	38,124
1983	11,505,858	1,904,700	265,062	12,138	13,687,758	37,501
1984	12,810,042	2,204,412	(1)	114,660	15,129,114	41,499
1985	13,529,880	1,801,212		371,448	15,702,540	43,021
1986	12,814,872	2 216,172		674,604	15,705,648	43,029
1987	14,166,684	2,316,342		769,566	17,252,592	47,267

Source: Energy Information Administration

(1) Beginning 1984, EIA separated B/P mixture into the two components for reporting purposes.

MONTHLY PRODUCTION, BY TYPE OF GAS*, 1987
(thousands of gallons)

	PROPANE	BUTANE	ISO-BUTANE	TOTAL
JANUARY	1,631,364	194,502	64,680	1,890,546
FEBRUARY	1,268,106	184,044	101,640	1,553,790
MARCH	1,141,014	217,140	56,364	1,414,518
APRIL	1,067,598	143,304	49,224	1,260,126
MAY	890,610	203,028	2,562	1,096,200
JUNE	878,682	146,244	113,106	1,138,032
JULY	1,100,106	209,916	62,076	1,372,098
AUGUST	989,730	151,662	46,998	1,188,390
SEPTEMBER	1,227,702	193,914	36,162	1,457,778
OCTOBER	1,329,720	207,732	75,264	1,612,716
NOVEMBER	1,223,754	202,062	82,992	1,508,808
DECEMBER	1,418,298	262,794	78,498	1,759,590
TOTAL	**14,166,684**	**2,316,342**	**769,566**	**17,252,592**

*Propane includes propylene; butane includes butylenes.

Source: Energy Information Administration

LP-GAS UNDERGROUND BULK STORAGE CAPACITIES, U.S. 1987-1985

(thousands of gallons)

	1987				1985			
	Propane	Butanes	Other[1]	Total	Propane	Butanes	Other[1]	Total
Alabama	6,006	—	—	6,006	14,994	—	—	14,994
Alaska	—	—	—	—	—	—	—	—
Arizona	121,842	90,174	—	212,016	103,320	77,700	—	181,020
Arkansas	—	—	—	—	—	—	—	—
California	—	—	—	—	—	—	—	—
Colorado	—	—	—	—	—	—	—	—
Connecticut	—	—	—	—	—	—	—	—
Delaware	—	—	—	—	—	—	—	—
Florida	—	—	—	—	—	—	—	—
Georgia	9,240	—	—	9,240	9,240	—	—	9,240
Hawaii	—	—	—	—	—	—	—	—
Idaho	—	—	—	—	—	—	—	—
Illinois	81,690	43,680	—	125,370	68,250	45,780	—	114,030
Indiana	42,210	26,376	—	68,586	54,600	44,184	—	98,784
Iowa	30,870	2,100	—	32,970	22,470	10,500	—	32,970
Kansas	1,854,636	651,882	17,262	2,523,780	1,755,180	560,868	261,534	2,577,582
Kentucky	25,074	3,360	1,050	29,484	25,074	3,360	1,050	29,484
Louisiana	1,039,920	819,966	871,878	2,731,764	996,324	658,140	1,369,578	3,024,042
Maine	—	—	—	—	—	—	—	—
Md. & D.C.	6,300	—	—	6,300	6,300	—	—	6,300
Massachusetts	—	—	—	—	—	—	—	—
Michigan	170,394	51,786	—	222,180	212,898	51,534	84,000	348,432
Minnesota	13,860	—	—	13,860	13,860	—	—	13,860
Mississippi	872,970	62,286	40,782	976,038	917,718	62,286	40,782	1,017,786
Missouri	44,982	—	—	44,982	44,982	—	—	44,982

	1987				1985			
	Propane	Butanes	Other[1]	Total	Propane	Butanes	Other[1]	Total
Montana	—	—	—	—	—	—	—	—
Nebraska	31,710	—	—	31,710	31,710	—	—	31,710
Nevada	—	—	—	—	—	—	—	—
New Hampshire	—	—	—	—	—	—	—	—
New Jersey	9,660	9,450	—	19,110	9,660	10,500	—	20,160
New Mexico	40,866	—	—	40,866	38,304	2,646	—	40,950
New York	89,040	9,870	40,110	139,020	98,196	—	—	98,196
North Carolina	—	—	—	—	—	—	—	—
North Dakota	—	—	—	—	—	—	—	—
Ohio	249,438	44,226	8,316	301,980	256,158	44,100	6,426	306,684
Oklahoma	60,186	14,700	—	74,886	87,444	36,792	21,504	145,740
Oregon	—	—	—	—	—	—	—	—
Pennsylvania	48,300	43,050	3,150	94,500	52,920	44,730	3,150	100,800
Rhode Island	—	—	—	—	—	—	—	—
South Carolina	80,010	—	—	80,010	80,010	—	—	80,010
South Dakota	—	—	—	—	—	—	—	—
Tennessee	—	—	—	—	—	—	—	—
Texas	4,141,914	2,205,042	2,072,616	8,419,572	2,594,508	2,078,412	2,267,412	6,940,332
Utah	8,400	—	—	8,400	8,400	—	—	8,400
Vermont	—	—	—	—	—	—	—	—
Virginia	11,508	—	—	11,508	—	—	—	—
Washington	—	—	—	—	—	—	—	—
West Virginia	21,000	—	—	21,000	21,000	—	—	21,000
Wisconsin	—	—	—	—	—	—	—	—
Wyoming	—	—	—	—	—	—	—	—
TOTAL CAPACITY	**9,112,026**	**4,077,948**	**3,055,164**	**16,245,138**	**7,520,520**	**3,731,532**	**4,055,435**	**15,307,488**

[1]Other includes B-P mixes and LP-Gas not otherwise identified.

Source: Gas Processors Association

SALES OF LP-GAS, BY PRINCIPAL USES, 1979-87
(thousands of gallons)

Year	Residential and Commercial	Industrial (1)	Engine Fuel	Chemical	Utility Gas	Farm	Other (2)	TOTAL
1979	6,870,505	1,940,100	1,045,100	4,042,886	561,000	1,764,444	207,625	16,431,660
1980	6,530,500	1,547,991	1,090,400	3,583,606	529,999	1,529,371	157,017	14,968,884
1981	6,310,300	1,380,000	1,130,000	3,474,237	490,000	1,462,839	147,872	14,395,248
1982	6,180,300	1,310,000	1,240,000	3,362,186	410,000	1,285,236	127,550	13,915,272
1983	6,090,000	1,220,000	1,362,000	3,243,802	370,000	1,182,578	219,378	13,687,758
1984	5,202,876	1,887,945	951,089	4,109,321	921,144	1,663,387	393,142	15,128,904 (3)
1985	5,793,556	1,299,389	942,254	4,307,062	155,870	1,705,833	875,858	15,079,822 (3, 4)
1986	5,606,699	1,340,652	820,504	4,267,312	294,765	1,633,888	361,625	14,325,445 (3, 4)
1987	5,692,639	1,293,176	718,013	6,307,491	188,358	1,458,802	498,641	16,157,120 (3, 4)

(1) Includes Refinery Fuel.

(2) Includes secondary recovery of petroleum and synthetic natural gas feed stock.

(3) API LP-sales survey does not include LP-gas export sales. Also, API data on LP-gas refinery inputs is used in determining LP-gas production/sales in preference to the volume reported by EIA, see page 3.

(4) Significant changes in some states from 1985 and earlier gas sales are based on additional information furnished to API by natural gas liquids pipeline companies.

Source: NLPGA and API

SALES OF LP-GAS BY STATES, 1979-86
(thousands of gallons)

	1981 (1)	1982 (1)	1983 (1)	1984 (2, 3)	1985 (2, 3)	1986 (2, 3, 4)	1987 (2, 3, 4)
Alabama	236,176	213,548	206,881	178,075	174,219	175,072	199,719
Alaska	21,925	36,139	24,783	w	14,889	13,300	11,799
Arizona	72,553	73,127	73,890	66,727	76,034	82,649	81,899
Arkansas	182,832	193,913	190,425	168,904	176,381	167,503	151,705
California	621,623	625,100	638,197	739,859	776,882	226,324	760,059
Colorado	194,561	225,710	167,763	103,705	105,256	89,478	93,217
Connecticut	61,695	59,244	54,967	51,282	51,680	46,383	61,194
Delaware	42,563	39,365	43,007	49,652	41,825	33,084	36,717
Florida	434,344	378,633	396,833	347,271	399,436	431,608	351,349
Georgia	324,803	283,259	288,293	263,364	291,335	274,184	259,010
Hawaii	27,108	37,757	23,140	w	6,296	6,712	7,427
Idaho	34,717	44,525	39,089	31,815	36,230	30,718	25,367
Illinois	655,106	613,051	624,976	794,996	788,693	764,188	724,026
Indiana	301,838	282,080	321,871	357,416	328,805	329,913	390,877
Iowa	357,245	408,322	441,185	528,416	591,080	588,186	375,396
Kansas	236,421	273,425	345,937	756,234	611,981	212,224	321,476
Kentucky	235,841	218,674	214,026	260,962	284,430	270,554	333,929
Louisiana	248,899	202,029	236,384	982,522	952,434	896,539	848,555
Maine	34,072	38,113	33,096	22,935	26,533	42,465	51,248
Maryland & D.C.	93,723	77,805	89,809	96,840	75,501	59,584	69,569
Massachusetts	121,024	105,076	88,042	65,990	71,752	94,715	103,691
Michigan	278,640	327,955	431,990	484,763	720,361	801,192	817,843
Minnesota	264,838	297,694	313,466	333,725	356,330	397,852	316,810
Mississippi	225,792	233,627	225,201	218,242	208,514	147,132	153,275
Missouri	407,099	455,980	411,025	340,805	372,837	384,048	362,524

	1981 (1)	1982 (1)	1983 (1)	1984 (2, 3)	1985 (2, 3)	1986 (2, 3, 4)	1987 (2, 3, 4)
Montana	54,940	77,359	62,941	49,258	61,597	63,384	50,973
Nebraska	166,829	180,572	156,875	149,236	176,763	163,284	199,576
Nevada	33,836	38,652	40,072	36,366	47,390	45,898	39,855
New Hampshire	56,732	64,583	59,096	50,017	64,713	71,272	82,561
New Jersey	141,364	124,038	111,901	264,907	232,104	207,911	252,581
New Mexico	108,945	154,427	158,873	153,130	140,102	71,050	67,733
New York	264,125	245,749	262,584	208,193	207,808	208,275	221,553
North Carolina	303,417	275,717	282,743	299,367	323,396	314,373	358,596
North Dakota	73,781	66,273	47,613	31,464	26,811	89,402	88,589
Ohio	955,760	867,725	662,365	504,464	603,114	520,397	534,490
Oklahoma	294,961	260,694	249,347	272,150	400,132	280,609	241,441
Oregon	70,612	64,582	68,683	60,694	67,666	71,896	64,205
Pennsylvania	248,850	222,533	225,533	239,876	228,144	186,764	205,314
Rhode Island	13,537	15,699	15,338	12,962	20,888	24,500	26,112
South Carolina	143,156	127,860	125,485	108,489	134,045	122,967	145,110
South Dakota	89,727	101,433	88,814	69,586	86,254	104,189	139,392
Tennessee	79,904	116,009	138,024	137,847	149,979	166,793	146,307
Texas	1,419,233	1,048,020	1,000,960	4,066,334	3,749,674	3,730,949	5,556,446
Utah	48,817	71,663	66,121	62,630	60,931	48,993	51,043
Vermont	33,823	41,955	38,814	28,321	33,848	37,026	44,281
Virginia	140,183	132,161	113,591	157,263	162,529	141,903	165,871
Washington	83,450	83,408	96,114	92,533	88,627	94,972	106,532
West Virginia	36,676	26,978	22,178	15,031	35,663	38,200	38,822
Wisconsin	259,668	280,861	337,044	364,777	361,689	346,983	321,334
Wyoming	93,247	120,004	88,071	75,340	76,241	67,828	99,922
Totals	**10,921,011**	**10,553,086**	**10,443,456**	**14,789,925**	**15,079,822**	**14,325,445**	**16,157,120**

w - Data withheld to avoid disclosing reports for individual companies. These reports included in totals.

(1) Does not include chemical feedstock use.

(2) Does include chemical feedstock use.

(3) API LP-sales survey does not include LP-gas export sales. Also, API data on LP-gas refinery inputs is used in determining LP-gas production/sales in preference to the volume reported by EIA. see page 3.

(4) Significant changes in some states from 1985 and earlier LP-gas sales are based on additional information furnished to API by natural gas liquids pipeline companies.

Source: NLPGA and API

SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1987
(thousands of gallons)

	Residential and Commerical	Chemical	Industrial (1)	Engine Fuel	Utility Gas	Farm	Other (2)	Total (3, 4)
Alabama	147,622	w	11,828	12,430	w	26,415	1,320	199,719
Alaska	8,715	0	w	864	0	w	w	11,799
Arizona	57,459*	0	6,494	8,105	0	3,886	2,817	81,899
Arkansas	99,920	w	3,596	9,337	w	35,644*	2,751*	151,705
California	290,295	53,996*	241,241	112,283*	4,048	34,886	21,839*	760,059
Colorado	70,699	0	8,420*	4,302	0	5,820	1,291	93,217
Connecticut	38,309	w	14,419	2,328	w	2,348	2,497*	61,194
Delaware	23,699	w	4,374	335	0	3,010	w	36,717
Florida	264,214*	w	22,750	21,247	17,236	17,068	8,574	351,349
Georgia	178,427	w	16,627	14,197	267	45,450	2,659	259,010
Hawaii	w	0	0	w	0	w	0	7,427
Idaho	12,064	0	5,824	3,845	0	2,787	847	25,367
Illinois	228,463	254,780*	40,067	42,436	w	123,367	5,062*	724,026
Indiana	207,142	w	11,233	17,899	w	81,559	5,258*	390,877
Iowa	175,782	w	5,518	6,534	w	181,744	3,731*	375,396
Kansas	89,534	w	34,950	15,258	w	46,374	4,819*	321,476
Kentucky	164,343	w	115,516*	9,744	w	19,639	737	333,929
Louisiana	52,707	736,047	16,214*	11,278	0	9,884	4,557*	848,555
Maine	38,809	w	8,641	1,685	w	192	372	51,248
Md. & D.C.	45,793	0	11,787	3,515	w	3,857	3,715*	69,569
Massachusetts	65,539	0	12,117	5,570	18,028	752	953*	103,691
Michigan	432,612	w	60,692	46,572	3,565	53,042	105,429*	817,843
Minnesota	188,417	0	15,284	9,852	w	99,503	1,817*	316,810
Mississippi	104,466	0	11,003*	19,582	0	16,441	851*	153,275
Missouri	285,516	w	13,111	18,149	w	42,706	1,332*	362,524

SALES OF LP-GAS, BY STATES AND PRINCIPAL USES, 1987

(thousands of gallons)

	Residential and Commerical	Chemical	Industrial (1)	Engine Fuel	Utility Gas	Farm	Other (2)	Total (3, 4)
Montana	34,081	w	8,563	4,222	0	2,952	w	50,973
Nebraska	85,115	w	4,596	6,866	0	102,779	59	199,576
Nevada	28,961	0	7,016	2,367	0	404	1,107	39,855
New Hampshire	59,108	0	7,929	2,029	2,457	2,425	w	82,561
New Jersey	53,439*	83,499*	21,068	8,779	w	2,149	1,585*	252,581
New Mexico	52,970	w	2,473	8,903	0	2,012	990	67,733
New York	184,829	w	15,619	9,452	w	7,246	2,968*	221,553
North Carolina	186,925	w	37,951	13,611	w	100,851	16,777*	358,596
North Dakota	44,387	w	4,979	1,898	w	30,593	6,583	88,589
Ohio	282,756	w	49,103	48,083	3,716	66,368	5,196	534,490
Oklahoma	94,908	w	39,874	12,713	w	37,292	478	241,441
Oregon	23,207	0	11,386*	23,446	0	5,034*	775	64,205
Pennsylvania	108,235	w	47,451	16,538	w	17,748	14,482*	205,314
Rhode Island	14,644	0	5,916	906	w	103	w	26,112
South Carolina	94,911	w	21,614	7,635	2,262	16,602	1,545*	145,110
South Dakota	90,554	0	5,389	6,288	w	36,300	725	139,392
Tennessee	97,912	w	10,437	16,394	w	17,946	1,539*	146,307
Texas	366,965	4,839,339	104,932*	55,942	w	61,871*	7,678*	5,556,446
Utah	23,632*	w	7,020*	6,012*	w	2,834	2,301	51,043
Vermont	36,848	0	4,908	1,159*	0	373	w	44,281
Virginia	90,136	w	26,319	8,937	w	26,554	13,535*	165,871
Washington	36,862	0	13,483*	32,958	0	5,468	479	106,532
West Virginia	13,018	w	986	1,564	w	2,461	w	38,622
Wisconsin	236,341	0	13,952	17,186	w	46,633	7,073*	321,334
Wyoming	57,659	w	12,415*	5,178	w	6,406	682	99,922
Total	**5,671,384**	**6,307,491**	**1,293,176**	**718,013**	**188,358**	**1,458,802**	**498,641**	**16,571,120**

*Propane only; butane withheld

w - Data withheld to avoid disclosing reports for individual companies. These reports included in totals.

(1) Includes refinery fuel.

(2) Includes secondary recovery of petroleum and synthetic natural gas feedstock.

(3) API LP-gas sales survey does not include LP-gas export sales. Also, API data on LP-gas refinery inputs is used in determining LP-gas production/sales in preference to the volume reported by EIA, see page 3.

(4) Significant changes in some states from 1985 and earlier LP-gas sales are based on additional information furnished to API by natural gas liquids pipeline companies.

SALES OF LP-GAS, BY STATE AND TYPE OF GAS, 1987 (1, 2)

(thousands of gallons)

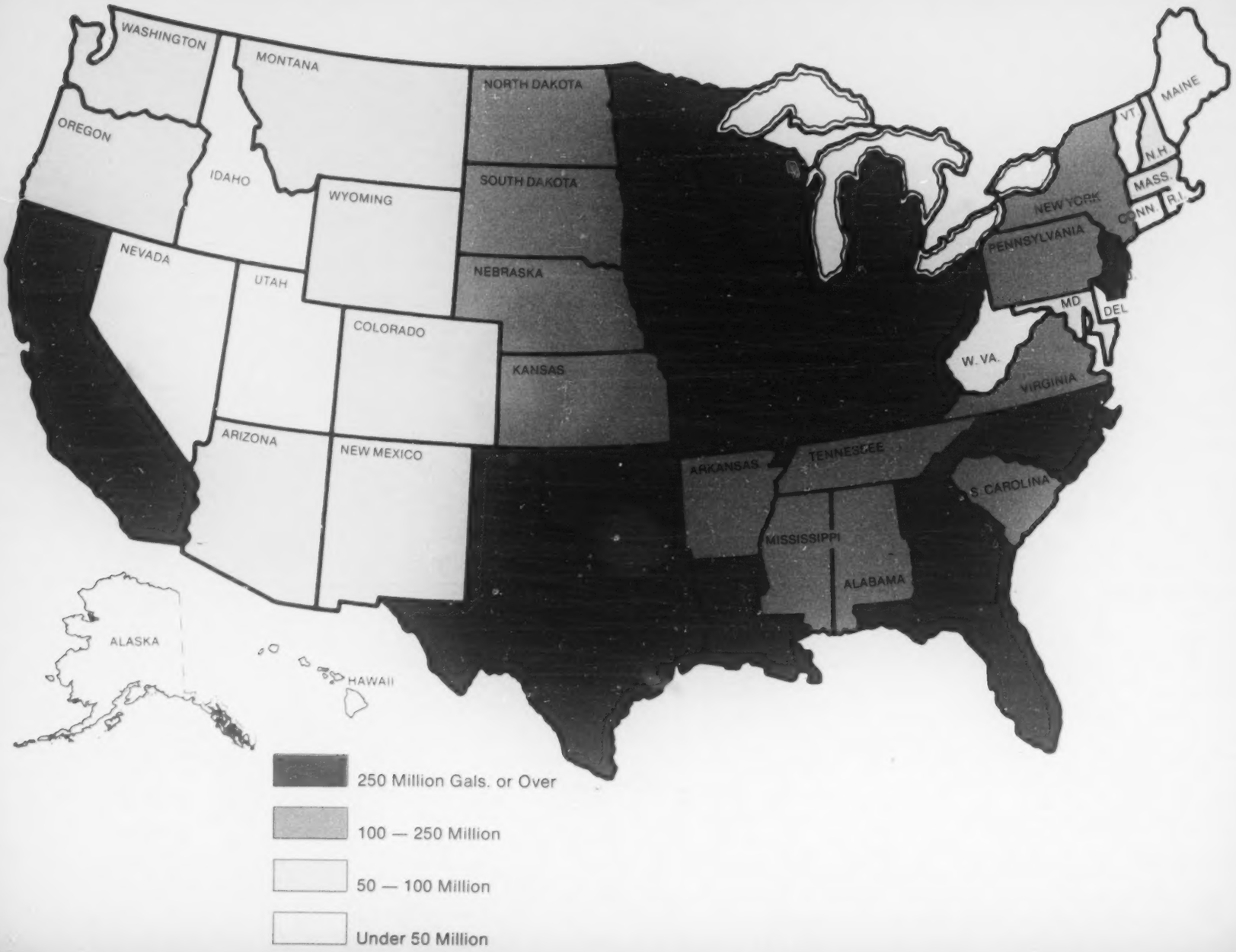
	Propane	Butane
Alabama	199,686	33
Alaska	11,799	0
Arizona	78,761	3,138
Arkansas	151,370	335
California	657,351	102,708
Colorado	90,532	2,685
Connecticut	60,501	693
Delaware	36,717	0
Florida	351,098	251
Georgia	257,922	1,088
Hawaii	7,427	0
Idaho	25,367	0
Illinois	688,646	35,380
Indiana	390,302	575
Iowa	373,554	1,842
Kansas	209,937	111,539
Kentucky	317,630	16,299
Louisiana	463,629	384,926
Maine	51,248	0
Maryland & D.C.	69,378	191
Massachusetts	102,959	732
Michigan	735,740	82,103
Minnesota	314,961	1,849
Mississippi	151,952	1,323
Missouri	361,960	564
Montana	50,956	17
Nebraska	199,568	8
Nevada	39,855	0
New Hampshire	82,561	0
New Jersey	171,251	81,330
New Mexico	67,348	385
New York	221,505	48
North Carolina	356,636	1,960
North Dakota	88,566	23
Ohio	533,951	539
Oklahoma	186,166	55,275
Oregon	63,848	357
Pennsylvania	205,110	204
Rhode Island	24,465	1,647
South Carolina	144,832	278
South Dakota	139,392	0
Tennessee	144,979	1,328
Texas	4,623,307	933,139
Utah	41,868	9,175
Vermont	44,281	0
Virginia	165,587	284
Washington	89,250	17,282
West Virginia	38,622	0
Wisconsin	321,256	78
Wyoming	88,273	11,649
Total	**14,293,860**	**1,863,260**

(1) API LP-sales survey does not include LP-gas export sales. Also, API data on LP-gas refinery inputs is used in determining LP-gas production/sales in preference to the volume reported by EIA, see page 3.

(2) Significant changes in some states from 1985 and earlier LP-gas sales are based on additional information furnished to API by natural gas liquids pipeline companies.

Source: NLPGA and API

STATE SALES LEVELS, 1987



UNITED STATES 1979-87 LP-GAS IMPORTS, BY P.A.D. DISTRICTS
(thousands of gallons)

FOREIGN TRADE

Petroleum Administration District	1979	1980	1981	1982	1983	1984	1985	1986	1987
I	386,553	311,927	373,800	219,828	181,734	270,942	373,674	547,932	557,844
II	1,514,546	1,395,441	1,010,310	1,075,032	794,892	1,058,274	1,079,484	985,572	1,171,422
III	358,789	304,035	473,634	425,124	291,270	204,498	275,184	1,504,650	793,716
IV	193,353	202,379	220,164	247,584	190,764	226,968	227,556	178,248	190,890
V	214,858	192,324	216,384	240,450	218,526	213,066	160,482	192,864	159,600
Total United States	**2,668,079**	**2,406,106**	**2,294,292**	**2,207,982**	**1,677,186**	**1,973,748**	**2,116,380**	**3,409,266**	**2,873,472**

Source: Energy Information Administration

CANADIAN LP-GAS SUPPLY AND DISPOSITION, 1987*
(thousands of gallons)

PROPANE	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Gas Plant Production	349,620	337,413	352,907	428,893	1,468,833
Refinery Production	105,152	73,721	110,969	106,377	396,219
Imports	382	12	165	2,969	3,528
Domestic Purchases	670,542	573,481	616,819	703,503	2,564,345
Inventory Changes	(35,242)	(57,183)	(45,353)	62,134	(75,644)
Total	1,090,454	927,444	1,035,507	1,303,876	4,357,281
Plant & Refinery Use	4,183	7,734	4,179	5,665	21,761
Solvent Flood	70,837	87,223	98,166	100,317	356,543
Petrochemical Industry	0	0	0	0	0
Residential, commercial, industrial	859,503	726,796	772,063	930,750	3,289,112
Export	158,408	103,752	155,392	266,025	683,577
Losses & Adjustments	(2,476)	1,938	5,707	1,119	6,288
Total	1,090,455	927,443	1,035,507	1,303,876	4,357,281

BUTANE	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Gas Plant Production	211,245	194,594	208,500	233,374	847,713
Refinery Production	109,824	118,237	125,456	113,724	467,241
Imports	124	0	630	0	754
Domestic Purchases	366,058	297,881	353,062	377,488	1,394,489
Inventory Changes	33,478	(38,893)	(68,635)	64,190	(9,860)
Total	720,729	571,819	619,013	788,776	2,700,337
Plant & Refinery Use	37,497	29,439	24,948	54,190	146,074
Solvent Flood	24,338	30,958	36,931	36,019	128,246
Petrochemical Industry	73,175	54,481	73,299	96,036	296,991
Residential, commercial, industrial	357,302	293,559	338,451	374,554	1,363,866
Export	223,090	157,871	135,736	221,161	737,858
Losses & Adjustments	4,798	5,511	9,647	6,819	26,775
Total	720,200	571,819	619,012	788,779	2,699,810

*Contains differences to be resolved by Statistics Canada.
Source: Statistics Canada

UNITED STATES LP-GAS IMPORTS, 1986-87
(thousands of gallons)

BY COUNTRY	1987	1986
Algeria	478,460	497,482
Australia	62,010	72,735
Canada	1,571,836	1,418,144
Indonesia	0	19,956
Japan	19	30
Mexico	183,172	217,955
Netherlands	4,022	1,332
Saudi Arabia	112,104	277,733
United Kingdom	78,819	235,185
Venezuela	148,658	284,091
Others	146,308	409,897
TOTAL	2,785,408	3,434,540

BY MONTH	1987	1986
January	228,232	304,481
February	223,560	204,508
March	163,891	219,585
April	175,155	145,483
May	175,185	236,935
June	145,280	319,860
July	235,690	391,688
August	250,879	352,658
September	358,520	347,097
October	290,582	287,204
November	273,381	328,788
December	265,053	296,253
TOTAL	2,785,408	3,434,540

UNITED STATES LP-GAS EXPORTS, 1986-87
(thousands of gallons)

BY COUNTRY	1987	1986
Canada	202,393	232,142
France	11	561
Japan	77	283
Mexico	205,372	284,582
Netherlands	5	55
Saudi Arabia	31	12
South Africa	76	59
West Germany	76	32
Others	84,594	84,333
TOTAL	492,635	602,059

BY MONTH	1987	1986
January	44,584	46,561
February	41,088	78,737
March	54,221	50,824
April	39,542	40,104
May	35,391	50,726
June	18,116	26,260
July	29,679	66,189
August	38,408	67,698
September	70,593	34,727
October	21,053	29,932
November	40,527	69,449
December	59,433	40,852
TOTAL	492,635	602,059

Source: Bureau of the Census

QUARTERLY TANK SHIPMENTS
1976-87

QUARTER	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
First	25,595	33,121	27,980	34,649	65,934R	71,944	53,572	33,248	35,693	42,470	53,667	73,079
Second	31,775	45,871	38,501	61,315	81,028R	83,830	45,071	46,227	41,169	52,272	54,692	71,931
Third	38,123	44,742	39,617	69,005	81,412R	85,869	48,469	45,265	42,193	43,246	58,398	77,986
Fourth	50,583	55,303	51,874	74,586	59,016R	64,241	57,492	55,020	55,279	72,905	80,097	100,334
Year Total	**146,056**	**179,037**	**157,972**	**239,555**	**287,390R**	**305,884**	**204,604**	**179,760**	**174,334**	**210,893**	**246,854**	**323,330**

Source: NLPGA

QUARTERLY REGULATOR SHIPMENTS
1976-87

QUARTER	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
First	510,865	707,029	828,603	1,089,877	1,048,099	806,859	1,110,123	1,340,771	1,186,421	1,186,421	1,609,223	1,787,739
Second	625,045	715,807	741,158	734,847	444,389	624,570	708,216	958,874	899,325	899,325	991,253	849,929
Third	493,122	334,550	463,217	424,764	334,575	482,716	247,797	522,424	467,400	540,611	487,528	733,160
Fourth	499,081	576,206	709,051	819,734	692,250	766,665	567,256	825,303	1,187,091	876,970	992,525	1,207,732
Year Total	**2,128,113**	**2,333,592**	**2,742,029**	**3,069,222**	**2,519,313**	**2,680,810**	**2,633,392**	**3,647,372**	**3,740,237**	**3,042,796**	**4,080,529**	**4,578,560**

Source: NLPGA

QUARTERLY CYLINDER SHIPMENTS
1976-87

QUARTER	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
First	418,882	466,176	493,223	544,223R	634,970R	662,999R	760,573	940,557	1,130,421	1,130,470	1,280,577	1,319,637
Second	438,318	518,409	533,156	530,418R	312,208R	719,166R	876,929	804,376	1,094,296	877,822	1,005,511	1,178,236
Third	403,534	253,221	313,386	258,874R	275,847R	373,576R	290,109	328,761	351,547	392,890	360,334	563,658
Fourth	343,404	322,592	398,451	336,813R	403,971R	480,051R	427,530	506,714	704,982	670,105	687,131	672,283
Year Total	**1,604,138**	**1,560,398**	**1,738,216**	**1,670,328R**	**1,626,996R**	**2,235,792R**	**2,355,141**	**2,580,408**	**3,281,246**	**3,071,287**	**3,333,553**	**3,733,814**

R - Revised

Source: NPGA

LP-GAS CYLINDER SHIPMENTS, BY SIZE (1)
1969-87

SIZE IN POUNDS (2)	5	10	20	33	40	60	100	200	300	420	All Other	TOTAL
1969	67,516	32,431	481,211	115,439	10,779	8,290	192,456	5,714	16,124	*	0	929,960(3)
1970	124,231	40,823	492,911	132,277	8,777	11,139	194,371	12,399	29,670	*	35,310	1,081,908(4)
1971	21,254R	28,948R	860,237R	266,864R	44,020R	12,307R	175,348R	11,309R	2,161R	27,771R	0	1,450,219R
1972	29,619	31,264	858,836	374,450	52,870	12,888	138,994	9,683	1,699	49,015	3,118	1,562,436
1973	36,375	33,997	902,107	340,085	60,188	21,559	144,553	10,373	1,737	33,100	0	1,584,074
1974	23,862	44,911	624,856	248,271	40,828	24,443	107,184	9,483	2,065	19,926	12,321	1,158,150
1975	13,958	36,373	721,714	266,213R	52,583	39,733	81,469	8,608	881R	18,236R	55,106R	1,294,874
1976	13,264	32,532	953,719	400,971	47,382	33,344	69,543	12,782	52R	18,990R	21,558R	1,604,137
1977	27,682	50,880	902,726	381,742	56,826	19,189	61,362	9,742	0	26,146R	24,123R	1,560,418
1978	24,251	48,761	1,070,162	381,466	60,220	21,787	74,026	9,457	0	20,356R	27,718R	1,738,207
1979	16,297R	35,396R	1,136,955R	250,781R	57,665R	18,752R	85,020R	6,821R	0	17,819R	44,260R	1,669,766R
1980	13,882R	16,723R	1,194,210R	208,247R	46,849R	14,600R	69,404R	6,423R	572R	25,149R	30,937R	1,626,996R
1981	15,428R	24,014R	1,784,230R	235,676R	46,476R	9,653R	54,186R	2,958R	636R	24,267R	38,240R	2,235,791R
1982	14,133	19,718	1,945,972	226,141	44,401	10,288	44,248	3,981	0	21,790	24,469	2,355,141
1983	12,581	23,611	2,155,684	256,132	36,690	7,056	46,611	2,238	275	15,077	24,453	2,580,408
1984	23,775	52,011	2,741,136	293,753	55,609	13,085	72,493	3,199	178	21,121	4,886	3,281,246
1985	24,898	40,324	2,604,796	288,398	45,306	3,664	56,079	251	0	7,169	402	3,071,287
1986	28,674	37,413	2,778,579	314,298	57,186	17,802	87,471	0	0	10,103	2,027	3,333,553
1987	29,132	46,693	3,155,439	332,069	56,711	9,911	97,794	250	0	5,815	0	3,733,814

*420 lb. cylinders included in "All Other".

LP-GAS CYLINDER SHIPMENTS, BY SIZE(1)
1957-67 SHIPMENTS

SIZE IN POUNDS	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967(5)
20	362,312	295,661	357,015	353,175	249,478	367,030	300,757	413,836	423,483	387,801	207,380
60	17,270	8,826	11,148	8,130	9,891	11,688	14,650	11,755	12,822	7,076	6,860
100	486,387	390,091	448,627	534,091	362,553	341,278	189,415	155,285	235,071	239,336	139,050
150-200	14,211	10,258	8,353	6,519	7,427	9,631	8,635	7,947	15,205	10,428	6,290
300-420	21,945	21,039	19,734	13,321	21,371	23,257	20,499	23,123	19,519	8,568	18,280
Unclassified	483,606	50,746	119,810	163,215	100,947	159,453	129,885	202,649	184,349	223,461	153,640
TOTALS	**1,385,731**	**776,621**	**964,687**	**1,078,451**	**751,667**	**912,337**	**663,841**	**814,595**	**890,449**	**876,670**	**531,500**

R - Revised

(1) Authorized cylinders for LP-Gas usage are 3, 3A, 3AA, 3B, 3E, 4A, 4B, 4BA, 4B240ET, 4BW240, 4B240X, 4B240FLW and 4E. However, only the readily identifiable LP-Gas grouping of 4B, 4BA, and 4BW240 is listed above. 4E is listed starting with 1970.

(2) For clarity and convenience, size classifications have been listed by the common cylinder sizes.

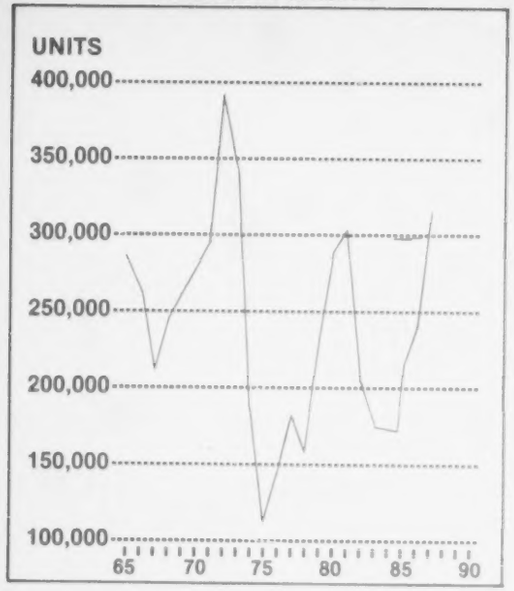
(3) Figures for October were inadvertently omitted, and are included in the figures reported for the first quarter of 1970.

(4) 1970 figures contain October 1969 figures.

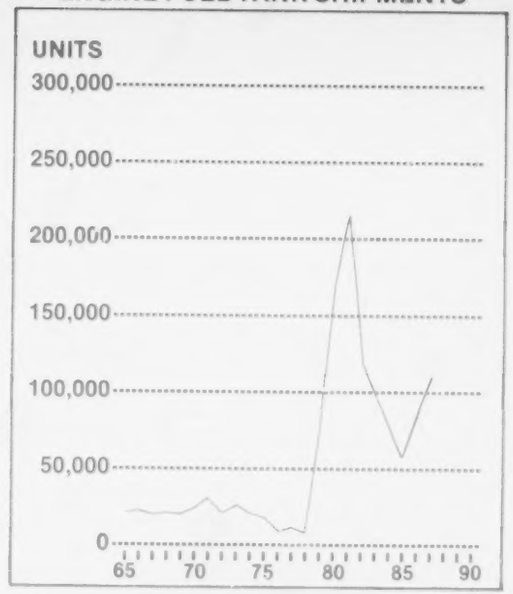
(5) Experienced reporting difficulties.

Source: Compressed Gas Association and NPGA

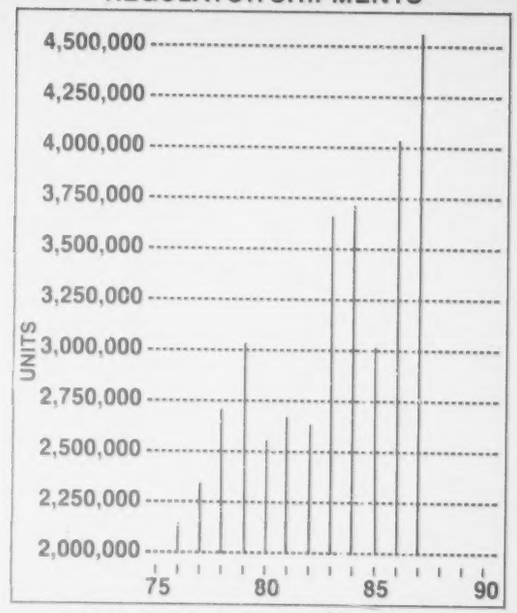
TANK SHIPMENTS



ENGINE FUEL TANK SHIPMENTS



REGULATOR SHIPMENTS



ANNUAL TANK SHIPMENTS
1960-1986

1960	141,107
1961	148,524
1962	218,308
1963	242,600
1964	269,278
1965	282,350
1966	258,369
1967	223,451
1968	248,036
1969	261,904
1970	277,121
1971	296,035
1972	389,125
1973	346,342
1974	186,282
1975	111,269
1976	146,056
1977	179,037
1978	157,972
1979	239,555
1980	287,390R
1981	305,884
1982	204,604
1983	179,760
1984	174,334
1985	210,893
1986	246,854
1987	323,330

ANNUAL ENGINE FUEL TANK SHIPMENTS
1965-1986

1965	21,922
1966	22,815
1967	17,645
1968	20,185
1969	18,577
1970	24,988
1971	32,266
1972	23,284
1973	27,058
1974	22,881
1975	15,398
1976	9,692
1977	11,340
1978	7,389
1979	76,228
1980	172,136
1981	216,652
1982	117,026
1983	96,774
1984	54,773
1985	77,305
1986	81,793
1987	109,821

ANNUAL REGULATOR SHIPMENTS
1961-1987

1961	1,084,754
1962	1,136,224
1963	1,181,249
1964	1,295,479
1965	1,275,253
1966	1,203,690
1967	1,065,472
1968	1,245,876
1969	1,357,168
1970	1,374,306
1971	1,579,696
1972	1,739,876
1973	1,636,683
1974	1,148,091
1975	1,334,337
1976	2,128,113
1977	2,333,592
1978	2,742,029
1979	3,069,222
1980	2,519,313
1981	2,680,810
1982	2,633,392
1983	3,647,372
1984	3,740,237
1985	3,042,796
1986	4,080,529
1987	4,578,560

Source: NPGA

ANNUAL TANK SHIPMENTS, BY SIZES, 1956-87
SIZE IN GALLONS (Water Capacity)

YEAR	0-399*	Engine Fuel	400-599	600-1099	Over 1099	Transport & Delivery** 1000-12000	TOTALS
1956	139,433		98,288	26,472	1,502	—	265,695
1957	117,975		71,974	16,069	1,234	—	207,252
1958	83,321		66,617	14,202	1,393	—	165,533
1959	102,779		65,069	16,996	1,458	—	186,302
1960	80,387		47,918	11,499	1,213	—	141,017
1961	85,918		50,449	10,923	1,234	—	148,524
1962	125,209		75,096	15,881	2,122	—	218,308
1963	126,041		90,157	22,170	4,232	—	242,600
1964	141,746		104,584	21,279	1,669	—	269,278
1965	113,285	21,922	116,462	28,306	1,451	924	282,350
1966	104,477	22,815	103,858	24,833	1,364	1,022	258,369
1967	92,881	17,645	88,819	21,671	1,298	1,136	223,450
1968	115,168	20,185	84,285	25,902	1,332	1,164	248,036
1969	120,431	18,577	93,905	26,570	887	1,534	261,904
1970	116,473	24,988	105,399	27,638	1,069	1,552	277,119
1971	122,032	32,266	118,996	29,305	1,080	1,356	305,035
1972	166,712	23,284	154,963	40,747	2,082	1,337	389,125
1973	138,337	27,058	114,319	60,913	4,301	1,414	346,342
1974	60,710	22,881	63,241	34,554	3,483	1,213	186,082
1975	40,375	15,398	36,362	16,310	2,054	770	111,269
1976	61,752	9,692	52,067	19,959	1,852	734	146,056
1977	81,897	11,340	53,121	27,636	3,653	1,390	179,037
1978	76,170	7,389	48,961	20,344	1,296	812	154,972
1979	84,986	76,228	55,773	20,922	1,048	598	239,555
1980	66,231	172,136	32,899	14,588	912	624	287,390
1981	51,608	216,652	24,139	12,069	1,006	410	305,884
1982	56,847	117,026	19,881	9,744	611	495	204,604
1983	59,966	96,774	16,057	6,132	468	363	179,760
1984	85,441	54,773	25,145	7,616	756	603	174,334
1985	92,437	77,305	32,048	8,056	475	572	210,893
1986	107,277	81,793	45,806	11,170	254	554	246,854
1987	135,287	109,821	64,308	12,944	327	643	323,330

*Includes engine fuel tanks through 1964.

**Not reported separately prior to 1965. See page 33 for breakdown.

Source: NLPGA

LP-GAS TRANSPORT TRUCK PRODUCTION*
1965-87

1965	310
1966	357
1967	307
1968	218
1969	221
1970	312
1971	302
1972	326
1973	384
1974	492
1975	178
1976	323
1977	800(R)
1978	431(R)
1979	177
1980	188
1981	76
1982	60
1983	67
1984	70
1985	22
1986	13
1987	35

From 1965 to date, tank truck data is for trucks ranging in size from 7,500 to 12,000 water gallon capacity.

(R) - Revised

Source: NLPGA and Bureau of the Census

SHIPMENTS OF LP-GAS DELIVERY AND TRANSPORT TRUCKS
1986-87

SIZE	1987	1986
1,000 - 1,399 Gallons	0	0
1,400 - 1,999 Gallons	1	2
2,000 - 2,599 Gallons	150	137
2,600 - 3,499 Gallons	457	402
3,500 - 7,499 Gallons	14	3
7,500 - 12,000 Gallons	21	10
TOTAL	643	554

Source: NLPGA

AGRICULTURAL CROP DRYER SHIPMENTS
1968-1986

GRAIN, HAY AND SEED DRYERS

YEAR	Heated Types*	Unheated Air Types	Totals
1968	17,318	925	18,243
1969	10,103	1,519	11,622
1970	7,153	2,019	9,172
1971	13,245	2,279	15,524
1972	16,456	3,358	19,814
1973	23,364	12,140	35,504
1974	34,781 (R)	15,936 (R)	50,717 (R)
1975	24,540 (R)	19,586 (R)	44,126 (R)
1976	29,904 (R)	24,997 (R)	54,901
1977	41,427 (R)	45,668 (R)	87,095 (R)
1978	39,951 (R)	59,912 (R)	99,863 (R)
1979	32,308 (R)	48,687 (R)	80,995 (R)
1980	24,301 (R)	26,162 (R)	50,463 (R)
1981	19,314 (R)	27,452 (R)	46,766 (R)
1982	27,360 (R)	37,263	64,623 (R)
1983	16,979	9,123	26,102
1984	12,904 (R)	10,407 (R)	23,316 (R)
1985	14,497	12,850	27,347
1986	11,738	37,123	48,861

*Consist of batch type, continuous flow, heated air and supplemental heater units estimated by manufacturers to be 90% to 95% LP-Gas fueled.

(R) Revised

Source: Bureau of the Census

CLASSIFICATIONS FOR LP-GAS APPLICATIONS

Residential & Commercial

- Kitchen Ranges
- Barbecue Grills
- Water Heaters
- Clothes Dryers
- Central Heating Systems
- Central Air Conditioning Systems
- Space Heaters
- Patio & Yard Lamps
- Patio & Pool Deck Heaters
- Recreation: Camp Cookers, Heaters, Lights, Refrigeration
- Infra-Red Heaters
- Laundry Equipment
- Greenhouses
- Incinerators
- Roofing Kettles
- Street Pavers

Internal Combustion

- Industrial Lift Trucks
- Industrial Sweepers
- Stationary Engines
- Bus & Truck
- Automobile
- Portable Engines
- Refrigeration

Chemical & Industrial

- Raw Materials
- Solvents
- Standby Fuel
- Flame Cutters
- Metallurgical Furnaces
- Industrial Dryers
- Electric Generation
- Construction Heaters
- Refinery Fuel

Utility Gas

- Propane-Air Systems
- Propane Enrichment

Synthetic Rubber

Synthetic Natural Gas Feedstock

Secondary Recovery of Petroleum

Farm

- Farm Tractors
- Farm Home Uses
- Crop Dryers
- Flame Cultivation
- Weed & Insect Control
- Tobacco Curers
- Poultry Brooders
- Stock Tank Heaters
- Pig Farrowers

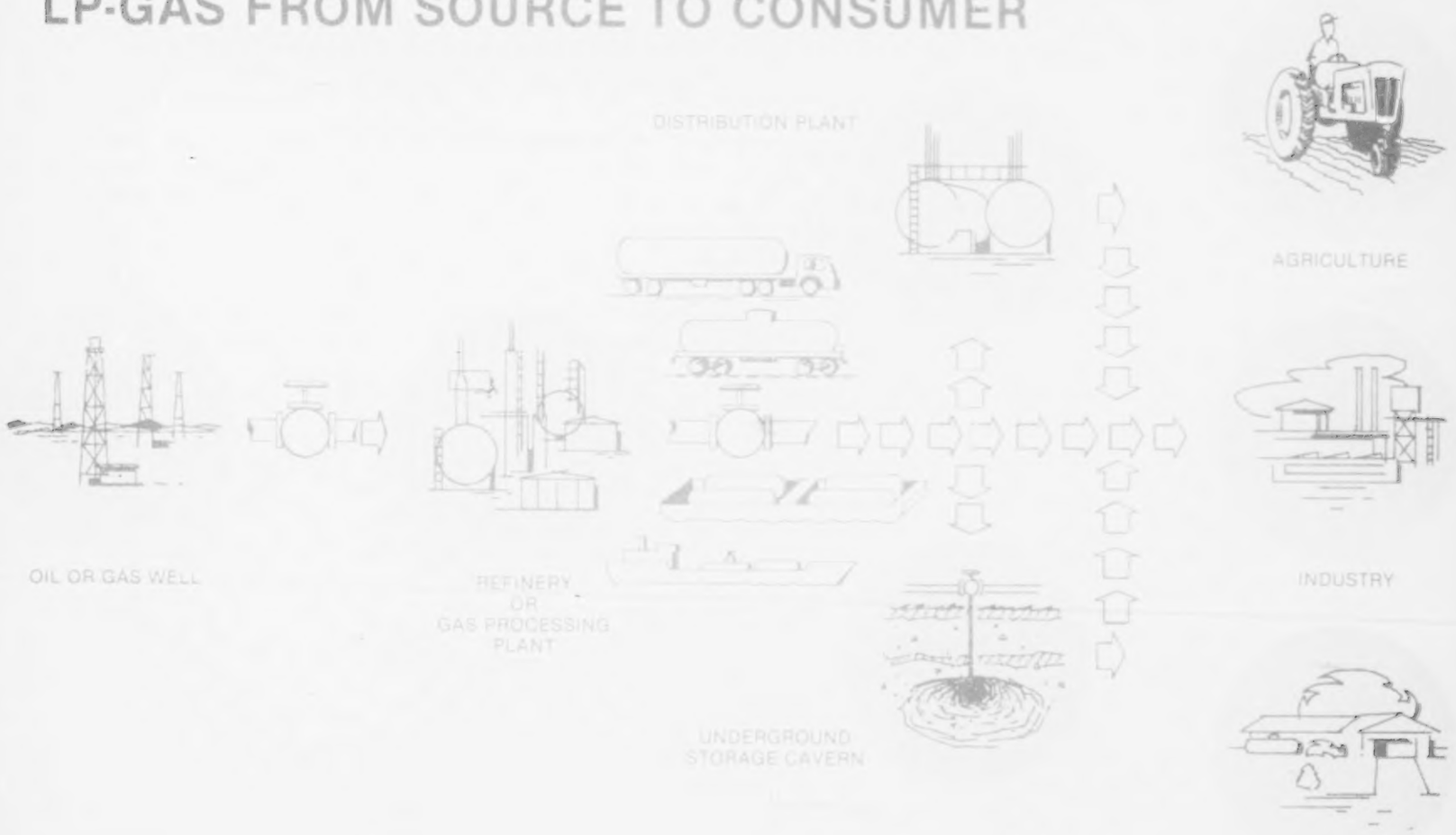
*American Petroleum Institute

RESIDENTIAL GAS APPLIANCE SHIPMENTS*
1956-1987

	Domestic Ranges	Water Heaters	Warm Air Furnaces	Boilers	Conversion Burners	Direct Htg. Eqpt.	Floor Furnaces	Wall Furnaces	Clothes Dryer	Gas Grills
1956	2,177,400	2,762,100	812,600	96,300	186,900	1,089,304	98,270	301,962	434,365**	
1957	1,968,600	2,532,300	702,600	105,400	163,500	931,982	76,031	243,559	392,085	
1958	1,884,400	2,673,400	853,700	123,200	142,000	1,485,000	97,500	389,000	378,700	
1959	2,012,500	2,953,600	1,053,400	159,600	156,200	1,446,300	97,300	449,500	476,500	
1960	1,814,300	2,720,600	900,000	153,200	131,500	1,210,700	86,700	366,000	431,500	
1961	1,830,000	2,731,700	929,400	168,000	115,700	1,066,600	76,900	390,300	411,700	
1962	1,981,400	2,876,000	1,008,500	175,000	104,200	1,160,800	77,800	437,300	474,400	
1963	2,072,300	2,579,400	1,101,900	184,000	108,400	1,323,800	77,200	448,100	534,700	
1964	2,170,400	2,724,070	1,185,700	199,600	100,800	1,190,000	73,080	482,400	632,200	
1965	2,266,400	2,736,750	1,237,500	200,300	92,900	994,000	70,820	430,100	710,000	
1966	2,162,600	2,636,440	1,212,900	186,500	92,800	1,033,800	67,200	447,600	751,200	
1967	2,123,000	2,554,510	1,145,700	173,800	84,600	920,000	58,310	412,800	828,900	
1968	2,285,900	2,756,300	1,428,100	186,800	79,200	973,700	64,910	490,300	876,000	
1969	2,471,100	2,742,430	1,546,000	175,800	76,900	1,027,900	66,900	509,900	905,400	
1970	2,361,700	2,785,210	1,471,200	163,800	65,800	928,900	55,800	489,200	851,700	
1971	2,549,300	3,088,480	1,795,200	157,200	52,900	782,600	51,800	560,000	847,000	
1972	2,661,100	3,162,820	2,066,200	155,700	39,700	708,300	42,880	719,660	936,100	
1973	2,481,400	3,080,440	1,719,500	146,700	43,100	678,000	41,560	610,000	925,700	
1974	1,950,100	2,568,650	1,476,300	122,600	88,900	488,400	37,570	371,610	738,900	
1975	1,618,400	2,645,110	1,185,800	88,100	38,800	332,000	33,430	401,600	671,800	
1976	1,823,500	3,112,130	1,554,400	112,600	26,200	306,400	24,000	499,430	707,200	
1977	1,745,500	3,070,221	1,508,100	113,100	N/A	193,313	23,400	475,330	735,800	722,300
1978	1,794,200	2,921,052	1,636,100	125,900	N/A	174,900	18,070	513,900	757,000	910,000
1979	1,798,600	2,887,275	1,862,600	221,300	N/A	192,700	15,560	349,930	768,000	1,310,000
1980	1,538,500	2,818,263	1,445,700	293,300	N/A	221,933	12,240	284,690	682,200	1,235,000
1981	1,495,700	2,785,207	1,416,700	161,600	N/A	133,034	10,552	242,831	639,000	1,526,700
1982	1,367,500	3,040,947	1,155,600	147,600	N/A	181,740R	18,746	132,640	584,200	1,765,960
1983	1,572,700	3,172,067	1,661,800	147,700	N/A	202,822	18,775	168,310	672,000	2,147,885
1984	1,732,100	3,502,053	1,849,200	179,870	N/A	255,842	20,825	179,310	753,600	2,637,190
1985	1,813,700R	3,528,931	1,822,295	192,455	N/A	282,969	22,085	206,430	833,500	2,788,300R
1986	1,939,930	3,728,779	2,104,805	196,022	N/A	281,411	21,874	196,930	935,900R	2,710,300
1987	2,142,610	3,950,684	2,072,925	189,662	N/A	267,669	19,704	166,540	1,036,900	N/A

N/A - Not Available
R - Revised
*LP-Gas and city gas combined.
**Includes combination washer-dryers in 1956 only.
Source: Gas Appliance Manufacturers Association

LP-GAS FROM SOURCE TO CONSUMER



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